

**TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A FILING UNDER 35 U.S.C. 371**

HYI-02-102

U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.5)

**10/522274**INTERNATIONAL APPLICATION NO.  
PCT/US2003/023759INTERNATIONAL FILING DATE  
30 July 2003PRIORITY DATE CLAIMED  
30 July 2002 and 01 July 2003

## TITLE OF INVENTION

FEEDFORWARD CONTROL PROCESSES FOR VARIABLE OUTPUT HYDROGEN GENERATORS

## APPLICANT(S) FOR DO/EO/US

Bradley P. RUSSELL et al.

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1.  This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2.  This is a **SECOND OR SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3.  This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).
4.  A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
5.  A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a.  is transmitted herewith (required only if not transmitted by the International Bureau).
  - b.  has been transmitted by the International Bureau.
  - c.  is not required, as the application was filed in the United States Receiving Office (RO/US).
6.  A translation of the International Application into English (35 U.S.C. 371(c)(2)). (verified)
7.  Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
  - a.  are transmitted herewith (required only if not transmitted by the International Bureau).
  - b.  have been transmitted by the International Bureau.
  - c.  have not been made; however, the time limit for making such amendments has NOT expired.
  - d.  have not been made and will not be made.
8.  A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). (verified)
9.  An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10.  A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11. to 16. below concern other document(s) or information included:

11.  An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12.  An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13.  A **FIRST** preliminary amendment.
- A **SECOND** or **SUBSEQUENT** preliminary amendment.
14.  A substitute specification. (attached to a red-ink marked-up version of the English language translation)
15.  A change of power of attorney and/or address letter.
16.  Other items or information:
  - Form PCT/IB/301
  - Form PCT/IB/304
  - Form PCT/IB/306
  - Form PCT/IB/308
  - Form PCT/ISA/210 (English language version, 2 pages)
  - Certificate of Mailing by Express Mail (2 pages)
  - Return Receipt Postcard

EXPRESS MAIL NO.: EV478067669US

MAILED: 25 January 2005

CUSTOMER NO.: 45481

|   |  |                           |   |
|---|--|---------------------------|---|
| U.S. APPLICATION NO. <small>See 37 CFR 1.492(e)</small><br><b>10/522274</b>   | INTERNATIONAL APPLICATION NO.<br>PCT/US2003/023759 | DT01                      | Rec'd PCT/RIC 25 JAN 2005<br>HYI-02-102 |
| 17. <input checked="" type="checkbox"/> The following fees are submitted:<br><b>BASIC NATIONAL FEE (37 CFR 1.492(a)(1)-(5)):</b>  |  | CALCULATIONS              | PTO USE ONLY                            |
| Basic National Filing Fee ..... \$ 300.00<br>National Stage Search Fee ..... \$ 500.00<br>National Stage Examination Fee ..... \$ 200.00  |  |                           |   |
| <b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b>   |  | \$ 1,000.00               |   |
| Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)).   |  |                           |   |
| CLAIMS  | NUMBER FILED                                       | NUMBER EXTRA              | RATE                                    |
| Total claims  | 20   | 0                         | X \$50.00 \$ 0.00                       |
| Independent claims  | 4  | 1                         | X \$200.00 \$ 200.00                    |
| <b>MULTIPLE DEPENDENT CLAIM(S) (if applicable)</b>  |  | + \$360.00                |   |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>  |  | \$ 1,200.00               |   |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.  |  | + \$ 1,200.00             |   |
| <b>SUBTOTAL =</b>   |  | \$ 1,200.00               |   |
| Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).  |  | + \$ 130.00               |   |
| <b>TOTAL NATIONAL FEE =</b>   |  | \$ 1,200.00               |   |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property  |  | + \$ 40.00                |   |
| <b>TOTAL FEES ENCLOSED =</b>  |  | \$ 1,200.00               |   |
|   |  | Amount to be:<br>refunded | \$                                      |
|   |  | charged                   | \$                                      |
| a. <input checked="" type="checkbox"/> A check in the amount of <u>\$1,200.00</u> to cover the above fee is enclosed.   |  |                           |   |
| b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.   |  |                           |   |
| c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>19-3550</u> . A duplicate copy of this sheet is enclosed. |  |                           |   |
| NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.                                       |  |                           |   |
| <br>SIGNATURE<br>Nick C. Kottis  |  |                           |   |
| NAME _____<br>31,974  |  |                           |   |
| REGISTRATION NUMBER _____   |  |                           |   |

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DT01 Rec'd PCT/PCT 25 JAN 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Title: FEEDFORWARD CONTROL PROCESSES FOR  
VARIABLE OUTPUT HYDROGEN GENERATORS

Based Upon: PCT/US2003/023759

Express Mail No.: EV478067669US

Date of Deposit: 25 January 2005

Customer No.: 45481

**CERTIFICATE OF MAILING BY EXPRESS MAIL**

**Mail Stop PCT**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

I hereby certify that the following requisites of the subject patent application are being deposited with the United States Postal Service as Express Mail Post Office to Addressee No. EV478067669US, on 25 January 2005, and is addressed to Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, together with the items listed below.

Based Upon: PCT/US2003/023759

10/522274  
DT01 Rec'd PCT/ 25 JAN 2005

- Transmittal Letter (Form PTO-1390) (2 pages), in duplicate
- Form PCT/IB/301
- Form PCT/IB/304
- Form PCT/IB/306
- Form PCT/IB/308
- English language copy of the International Search Report, Form PCT/ISA/210 (2 pages)
- A check in the amount of \$1,200.00 to cover the fees set forth in the Transmittal Letter
- Return Receipt Postcard

Respectfully submitted,



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